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APPLICATION NO.	i	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,139	•	09/12/2003	Frank S. Hada	KCX-662 (19063)	KCX-662 (19063) 9094	
22827	7590	09/19/2006		EXAMINER		
DORITY &		•	RINEHART, KENNETH			
POST OFFICE BOX 1449 GREENVILLE, SC 29602-1449				ART UNIT	PAPER NUMBER	
	•			3749		
				DATE MAILED: 09/19/200	DATE MAILED: 09/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/662,139	HADA ET AL.				
		Examiner	Art Unit				
		Kenneth B. Rinehart	3749				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet wit	h the correspondence address				
WHIO - Exte after - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE OF THE MAILING DATE OF THE MAILING DATE OF THE MAILING DATE OF THE OF THE MAILING DATE OF THE	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONT , cause the application to become ABA	ATION. ply be timely filed  'HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 19 Ju	<u>uly 2006</u> .	•				
2a)	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	Claim(s) 1-33 is/are pending in the application						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.					
·	Claim(s) is/are allowed.						
·	Claim(s) 1-10 and 12-33 is/are rejected.						
·	Claim(s) <u>11</u> is/are objected to.	r alastian requirement					
ت (٥	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)[	The specification is objected to by the Examine	er.					
10)⊠	The drawing(s) filed on $\underline{12/25/06}$ is/are: a) $\boxtimes$ a	ccepted or b) objected to	o by the Examiner.				
	Applicant may not request that any objection to the	•					
44)	Replacement drawing sheet(s) including the correct	,	, ,				
11)	The oath or declaration is objected to by the Ex	caminer, Note the attached	Office Action or form PTO-152.				
Priority	under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority document	s have been received.					
	2. Certified copies of the priority document	s have been received in Ap	pplication No				
	3. Copies of the certified copies of the prior	·	received in this National Stage				
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* (	See the attached detailed Office action for a list	of the certified copies not r	eceived.				
Attachmer	nt(s)						
	ce of References Cited (PTO-892)	4) Interview Su	ummary (PTO-413)				
2) Notice	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date				
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>9//2/</u> 04, 7//9/64, 4//4/05	6) Other:	formal Patent Application _·				

Application/Control Number: 10/662,139

Art Unit: 3749

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 10, 12, 22, 26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 26 refers to at least 345 degrees, at least 1 inch Hg, a pressure greater than 1 atmosphere, at least about 4 inches Hg which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9, 13-21, 23, 24, 25, 27-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Houstila (4238284) in view of Kankaanpaa (3891500). Kankanpaa discloses a first fabric for conveying a paper web (21, fig. 1); a through-air dryer comprising a hood surrounding a drying cylinder, the through-air dryer being configured to convey a hot gaseous stream through a paper web traveling over the drying cylinder (23, fig. 1), a throughdrying fabric being wrapped

around the drying cylinder of the through-air dryer, the throughdrying fabric forming an endless loop (31, fig. 1); and a transfer roll positioned outside the endless loop of the throughdrying fabric (25, fig. 1), the first fabric and the throughdrying fabric being wrapped around the transfer roll in an overlapping relationship (fig. 1), a rotatable roll (fig. 1), a turning roll located downstream of the transfer roll along the through-air dryer, the throughdrying fabric being wrapped around the turning roll as the fabric leaves the drying cylinder of the through-air dryer, the turning roll in combination with the transfer roll determining the amount the throughdrying fabric is wrapped around the drying cylinder of the through-air dryer (34, fig. 1), a second fabric wrapped around the turning roll in an overlapping relationship with the throughdrying fabric, wherein a paper web is conveyed through the through-air dryer by the throughdrying fabric, is fed in between the throughdrying fabric and the second fabric along the turning roll, and is then transferred to the second fabric (32, fig. 1), the-turning roll is positioned outside the endless loop of the throughdrying fabric (34, fig. 1), a paper web is only in contact with conveying fabrics when conveyed into and out of the through-air dryer (fig. 1), a first transfer fabric configured to convey a paper web to the throughdrying fabric (21, fig. 1), the first transfer fabric converging with the throughdrying fabric at a transfer point (21, 31, fig. 1); and a transfer roll positioned at the transfer point (25, fig. 1), the first transfer fabric and the throughdrying fabric being wrapped around the transfer roll in an overlapping relationship (fig. 1), and wherein a paper web is conveyed on the first transfer fabric (W, fig. 1), fed in between the first transfer fabric and the throughdrying fabric and then transferred to the throughdrying fabric prior to being conveyed around the drying cylinder of the through-air dryer (fig. 1), a tissue making system (col. 1, line 5), a drying cylinder (20, fig. 1), a drying fabric wrapped around at least a portion of the drying

cylinder, the throughdrying fabric being in the shape of an endless belt, the endless belt having an upstream end prior to the drying cylinder and a downstream end after the drying cylinder, and (31, fig. 1), a transfer roll positioned at the upstream end of the drying fabric and a turning roll positioned at the downstream end of the drying fabric, the transfer roll and the turning roll being positioned outside the endless loop (25, 34, fig. 1), the transfer fabric is wrapped around the transfer roll in an overlapping relationship with the drying fabric, and wherein a paper web conveyed on the transfer fabric is fed in between the transfer fabric and the drying fabric along the transfer roll and then transferred to the drying fabric (21, W, 31, fig. 1), the transfer fabric is positioned adjacent to the transfer roll (fig. 1), the dryig apparatus comprises a through air dryer (fig. 1), the apparatus further comprises a hood surrounding the drying cylinder, the through-air dryer being configured to convey a hot gaseous stream through a paper web passing in between the hood and the drying cylinder (23, fig. 1), a second transfer fabric wrapped around a turning roll in an overlapping relationship with the throughdrying fabric, wherein a paper web is conveyed through the through-air dryer by the throughdrying fabric, is fed in between the throughdrying fabric and the second transfer fabric along the turning roll, and is then transferred to the second transfer fabric (32, fig. 1). Houstila discloses applicant's invention substantially as claimed with the exception of the transfer roll including a pressurized zone configured to emit a gaseous stream for facilitating transfer of a paper web from the first fabric to the throughdrying fabric, adjacent to the transfer roll, the throughdrying fabric is wrapped around the drying cylinder at least 270, 285,300,330, the pressurized zone has a length and wherein the throughdrying fabric is wrapped around the transfer roll so as to substantially cover the entire length of the pressurized zone, the throughdrying fabric separating from the first fabric at about

an end of the pressurized zone, the transfer roll further includes a pressurized zone that facilitates transfer of a paper web from the first transfer fabric to the throughdrying fabric, a head box configured to contain an aqueous suspension of papermaking fibers and for depositing the aqueous suspension onto a forming fabric, the pressurized zone has an upstream end, a downstream end, and a length and wherein the throughdrying fabric is wrapped around the transfer roll over the entire length of the pressurized zone, the throughdrying fabric separating from the transfer fabric at about the downstream end of the pressurized zone, a pressurized zone configured to emit a fluid stream for transferring a web from a transfer fabric to the drying fabric, the transfer roll and the turning roll are positioned such that the throughdrying fabric is wrapped at least 295 around the drying cylinder. Kankaanpaa teaches the transfer roll including a pressurized zone configured to emit a gaseous stream for facilitating transfer of a paper web from the first fabric to the through drying fabric, adjacent to the transfer roll, the throughdrying fabric is wrapped around the drying cylinder at least 270, 285,300,330, the pressurized zone has an upstream end, a downstream end, and a length and wherein the throughdrying fabric is wrapped around the transfer roll over the entire length of the pressurized zone, the throughdrying fabric separating from the transfer fabric at about the downstream end of the pressurized zone, and wherein the transfer roll includes a pressurized zone configured to emit a fluid stream for transferring a web from a transfer fabric to the drying fabric, the transfer roll and the turning roll are positioned such that the throughdrying fabric is wrapped at least 295 around the drying cylinder (19, fig. 1, col. 4, lines 55-61), the pressurized zone has a length and wherein the throughdrying fabric is wrapped around the transfer roll so as to substantially cover the entire Length of the pressurized zone, the throughdrying fabric separating from the first fabric at about

Page 5

an end of the pressurized zone (15, 6, fig. 1), the transfer roll further includes a pressurized zone that facilitates transfer of a paper web from the first transfer fabric to the through drying fabric (fig. 1), a head box configured to contain an aqueous suspension of papermaking fibers and for depositing the aqueous suspension onto a forming fabric (1, fig. 1), the pressurized zone has an upstream end, a downstream end, and a Length and wherein the throughdrying fabric is wrapped around the transfer roll over the entire length of the pressurized zone, the throughdrying fabric separating from the transfer fabric at about the downstream end of the pressurized zone (fig. 1) for the purpose of increasing the speed. It would have been obvious to one of ordinary skill in the art to modify Houstila by including the transfer roll including a pressurized zone configured to emit a gaseous stream for facilitating transfer of a paper web from the first fabric to the throughdrying fabric, adjacent to the transfer roll, the pressurized zone has a length and wherein the throughdrying fabric is wrapped around the transfer roll so as to substantially cover the entire Length of the pressurized zone, the throughdrying fabric separating from the first fabric at about an end of the pressurized zone, the transfer roll further includes a pressurized zone that facilitates transfer of a paper web from the first transfer fabric to the throughdrying fabric, a head box configured to contain an aqueous suspension of papermaking fibers and for depositing the aqueous suspension onto a forming fabric, the pressurized zone has an upstream end, a downstream end, and a Length and wherein the throughdrying fabric is wrapped around the transfer roll over the entire length of the pressurized zone, the throughdrying fabric separating from the transfer fabric at about the downstream end of the pressurized zone, and wherein the

transfer roll includes a pressurized zone configured to emit a fluid stream for transferring a web

Application/Control Number: 10/662,139

Art Unit: 3749

from a transfer fabric to the drying fabric as taught by Kankaanpaa for the purpose of increasing the speed so that the apparatus is more efficient and more product is produced.

## Allowable Subject Matter

Claim 11 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Rinehart whose telephone number is 571-272-4881. The examiner can normally be reached on 7:20 -4:20.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg can be reached on 571-272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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